

## Celebrating Nursing Science: The Research-Practice Link

### Wound Care Panel



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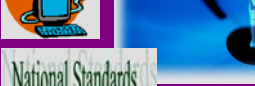
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### Celebrating Nursing Science: The Research-Practice Link - Wound Care Panel



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#### • How does research get to practice???

- Journals
- Conferences/seminars
- Poster presentations
- National standards
  - Professional organizations
  - Government standards
  - Public groups/organizations
- Research grants
- List serves
- Answer to a question

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- 1992 Clinical Nurse Specialists **identified need** for pressure ulcer prevention
- **Validated need** with
  - Staff
  - WOCN
  - Quality Department
  - Administration
  - Risk Management
  - Physicians
  - Annual Pressure Ulcer prevalence survey data

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### What should 'we' do???

- **Brainstorm**
- **Benchmark**
  - Professional organizations
  - National/proprietary databases
  - List serves
  - Phone calls/e-mails
- **Review the literature**
  - Are there current standards?
  - Do any research reports have questions relevant to our needs?

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### Current standards:

- Pressure Ulcers in Adults: Prediction and Prevention (Clinical Practice Guideline, May 1992, US Dept. HHS, AHCPR [nowAHRQ])
- Pressure Ulcers: Incidence, economics, risk assessment. Consensus development conference statement (National Pressure Ulcer Advisory Panel, 1989)

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### Should we use the research literature we found???

- Research question relevant
- Literature review/reference list 'current'
- Number of subjects and sampling procedure
- Characteristics of subjects
- Characteristics of facility
- Protocol logical for research question
- Tools reliable and valid
- Resources available
- Conclusions and discussion correlate with the data
- Results clinically significant (vs. statistically significant)



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**What did we learn from the literature???**

- Perform systematic risk assessment and reassessment at periodic intervals
- Research determined validity and reliability of the Braden Scale
- Research identified the Braden Scale was:
  - best performed by RNs
  - easy to gather the data and complete the tool
  - quick (< 1 minute/patient)
  - easy math (user friendly)
- Braden Scale literature primarily long-term care



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**Question:**



- Are the benefits of the change worth the costs to
  - patient
  - family
  - staff
  - expenditure on other resources (equipment, supplies, personnel)?

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**What has research demonstrated over time?**

Bergstrom, N., Braden, B., Kemp, M., Champagne, M., & Ruby, E. (1996). Multi-site study of incidence of pressure ulcers and the relationship between risk level, demographic characteristics, diagnoses, and prescription of preventing interventions. *Journal of the American Geriatric Society*, 44. 22-30.

- Risk assessment with the Braden Scale good predictive value
- Braden Scale assists with identification of patient interventions
- Tertiary care facilities studied
- 100% sensitivity (!); 64-90% specificity
- Pressure ulcer distribution described



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### What has research demonstrated over time?

Bergstrom, N., Braden, B., Champagne, M., Kemp, M., & Ruby, E. (1998). Predicting pressure ulcer risk: A multisite study of the predictive validity of the Braden Scale. *Nursing Research*, 47 (5). 261-269.

- Assess patients on admission
- Re-assess at 48-72 hours
- Best sensitivity of assessment: 48-72 hours after admission
- Validated score of 18 cutoff for patients at low risk for pressure ulcer development
- Identified pressure ulcer developed Day 11 (mean)
- Formal risk assessments → best use of resources



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### What has research demonstrated over time?

Bergstrom, N., & Braden, B.J. (2002). Predictive validity of the Braden Scale among black and white subjects. *Nursing Research*, 51 (6). 398-403.

- Braden Scale score cutoff of 18 valid for both black and white patients



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### Translation into practice:

- Awareness of trends provides a preview of possible practice changes
- Access research reports
- Evaluate quality of research
- Evaluate 'fit' of research to practice situation
- Develop co-champions
- Develop the plan: implement, evaluate, maintain, continue to improve & advance practice/patient care
- **Keep asking WHY???**



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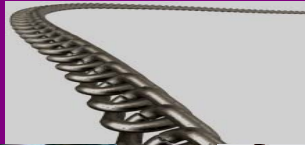
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Thank you

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